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1	CLAIMS
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3	What is claimed is:
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5	Claim 1. A method for diagnosing or monitoring
6	multiple sclerosis (MS) in a mammal comprising:
7	obtaining a sample of body fluid from said mammal, wherein
8	said body fluid includes blood, blood products and saliva;
9	contacting said sample with at least one protein
10	associated with multiple sclerosis, wherein said contacting is
11	by an enzyme-linked immunosorbent assay (ELISA);
12	determining a level of at least one autoantibody specific
13	for said at least one protein in said sample; and,
14	comparing said level of said at least one autoantibody
15	with statistically significant levels thereof, wherein
16	diagnosis or monitoring of MS in said mammal is achieved.
17	
18	Claim 2. The method of claim 1, wherein said mammal is a
19	human.
20	
21	Claim 3. The method of claim $1$ , wherein said protein is myelin
22	basic protein (MBP).
23	
24	Claim 4. The method of claim 1, wherein said ELISA comprises
25	the steps of:

1	mixing said sample with at least one compound effective to
2	optimize the signal to noise ratio;
3	contacting said sample with an immunosorbent comprising
4	said at least one protein having a high specific affinity for
5	said at least one autoantibody; and,
6	determining an amount of said at least one autoantibody
7	bound by said at least one protein on said immunosorbent using
8	an antibody composition having an affinity for said at least
9	one autoantibody and operably linked to a signal generating
10	system.
11	
12	Claim 5. The method as in claim 4, wherein said signal
13	generating system is a tetramethylbenzidine substrate.
14	
15	Claim 6. The method as in claim 4, wherein said at least one
16	autoantibody is anti-MBP IgG.
17	
18	Claim 7. The method as in claim 6, wherein said antibody
19	composition comprises purified anti-human IgG conjugated to
20	horseradish peroxidase.
21	
22	Claim 8. The method as in claim 4, wherein said at least one
23	autoantibody is anti-MBP IgM.

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25 Claim 9. The method as in claim 8, wherein said antibody

composition comprises purified anti-human IgM conjugated to 1 2 horseradish peroxidase. 3 Claim 10. The method as in claim 4, wherein said at least one 4 autoantibody includes anti-MBP IgG and anti-MBP IgM. 5 6 A kit for diagnosing multiple sclerosis (MS) or 7 monitoring disease state in MS patients, comprising: 8 at least one biomolecule or an immunologically detectable 9 fragment thereof which is upregulated in MS patients, said 10 biomolecule having an affinity for at least one additional biomolecule whose presence is diagnostic of MS, said at least 12 one biomolecule being immobilizable on a solid support; and, 13 at least one labeled biomolecule having a binding affinity 14 15 for said at least one additional biomolecule; whereby performance of at least one analysis determinative 16 of the presence of statistically significant levels of said at 17 least one biomolecule or an immunologically detectable fragment 18 thereof, is carried out on a sample of body fluid and provides 19 a means for diagnosing or monitoring disease state. 20

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Claim 12. The kit as defined in claim 11, wherein said sample of body fluid is blood, blood products, or saliva.

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25 Claim 13. The kit as defined in claim 11, wherein said at

least one biomolecule is myelin basic protein (MBP). 1

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- The kit of claim 11, wherein said at least one 3
- additional biomolecule includes anti-MBP IgM and anti-MBP IgG. 4

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- The kit as defined in claim 11, wherein said at 6 Claim 15.
- least one additional biomolecule is anti-MBP IgM. 7

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- Claim 16. The kit as defined in claim 15, wherein said labeled 9
- biomolecule is anti-human IgM conjugated to horseradish 10
- 11 peroxidase.

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- The kit as defined in claim 11, wherein said at Claim 17.
- 14 least one additional biomolecule is anti-MBP IgG.

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- 16 Claim 18. The kit as defined in claim 17, wherein said labeled
- biomolecule is anti-human IgG conjugated to horseradish 17
- 18 peroxidase.

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- The kit of claim 11, wherein said monitoring is 20 Claim 19.
- 21 carried out on a single sample.

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- The kit of claim 11, wherein said monitoring is 23 Claim 20.
- carried out on multiple samples such that at least one analysis 24
- is carried out on a first sample and at least another analysis 25

is carried out on a second sample. Claim 21. The kit of claim 20, wherein said first and second samples are obtained at different time periods.